UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,571	11/21/2003	Koji Shigemura	1670.1020	9396	
49455 STEIN, MCEW	7590 06/01/2007 VEN & BUI, LLP	EXAM	EXAMINER		
1400 EYE STR	·	LIN, J	LIN, JAMES		
SUITE 300 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
			1762	1762	
			MAIL DATE	DELIVERY MODE	
			06/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/717,571	SHIGEMURA, KOJI	
Examiner	Art Unit	
Jimmy Lin	1762	

		Simility Lin	1702	
The MAILI	ING DATE of this communication appe	ars on the cover sheet with the	correspondence add	ress
THE REPLY FILED 23	3 May 2007 FAILS TO PLACE THIS APPI	LICATION IN CONDITION FOR AL	LOWANCE.	
<ol> <li>The reply was file this application, places the applic a Request for Co time periods:</li> </ol>	ed after a final rejection, but prior to or on applicant must timely file one of the follow cation in condition for allowance; (2) a No ontinued Examination (RCE) in compliance	the same day as filing a Notice of wing replies: (1) an amendment, af tice of Appeal (with appeal fee) in ce with 37 CFR 1.114. The reply m	Appeal. To avoid aba fidavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)
· <del>-</del>	or reply expires $\underline{3}$ months from the mailing date	•		
no event, how	r reply expires on: (1) the mailing date of this A vever, will the statutory period for reply expire late: It: If box 1 is checked, check either box (a) or (	ater than SIX MONTHS from the mailin	ng date of the final rejecti	on.
TWO MONTH Extensions of time may be have been filed is the dat under 37 CFR 1.17(a) is set forth in (b) above, if of may reduce any earned p	AS OF THE FINAL REJECTION. See MPEP 70 oe obtained under 37 CFR 1.136(a). The date the for purposes of determining the period of excalculated from: (1) the expiration date of the schecked. Any reply received by the Office later patent term adjustment. See 37 CFR 1.704(b)	06.07(f). on which the petition under 37 CFR 1. tension and the corresponding amount shortened statutory period for reply orig r than three months after the mailing da	136(a) and the appropria of the fee. The appropr ginally set in the final Offi	te extension fee iate extension fee ce action; or (2) as
NOTICE OF APPEAL		line and with 27 OFD 44 27 mount be		6 46
filing the Notice	opeal was filed on A brief in comp of Appeal (37 CFR 41.37(a)), or any exte eal has been filed, any reply must be filed	nsion thereof (37 CFR 41.37(e)), to	o avoid dismissal of th	
	amendment(s) filed after a final rejection,	but prior to the date of filing a brief	f. will not be entered b	ecause
	e new issues that would require further co			00000
· · · == ·	the issue of new matter (see NOTE belo	•	,,	
	not deemed to place the application in be		educing or simplifying	the issues for
	ent additional claims without canceling a	corresponding number of finally re	jected claims.	
NOTE:	. (See 37 CFR 1.116 and 41.33(a)).			
_	nts are not in compliance with 37 CFR 1.1		ompliant Amendment	(PTOL-324).
	ly has overcome the following rejection(s)		•	` '
	d or amended claim(s) would be all		, timely filed amendme	ent canceling the
7. For purposes of how the new or The status of the Claim(s) allowed Claim(s) objecte Claim(s) rejecte	f appeal, the proposed amendment(s): a) amended claims would be rejected is pro e claim(s) is (or will be) as follows: d:  ed to: d:		ill be entered and an e	explanation of
• •	wn from consideration:			
AFFIDAVIT OR OTHE				
because applica	other evidence filed after a final action, buant failed to provide a showing of good an oresented. See 37 CFR 1.116(e).			
9. The affidavit or of entered because showing a good	other evidence filed after the date of filing e the affidavit or other evidence failed to o and sufficient reasons why it is necessar	overcome <u>all</u> rejections under appe y and was not earlier presented. S	eal and/or appellant fa See 37 CFR 41.33(d)(	ils to provide a 1).
	r other evidence is entered. An explanatio ONSIDERATION/OTHER	on of the status of the claims after e	entry is below or attac	hed.
11.   The request for see attached see attac	r reconsideration has been considered busheet.	ut does NOT place the application	in condition for allowa	nce because:
12.  Note the attach	ned Information Disclosure Statement(s).	(PTO/SB/08) Paper No(s)		,
13. Other:				
		·		

Art Unit: 1762

## Box 11:

Applicant's arguments, see pg. 6, filed 5/23/2007, with respect to claims 14-19 and 21-22 have been fully considered and are persuasive. The 35 U.S.C. 112, first paragraph rejection (i.e., the rejection regarding the first and second flat surfaces) of the claims has been withdrawn.

Applicant's arguments filed 5/23/2007 have been fully considered but they are not persuasive.

The Applicant argues on pg. 7 that the teaching of laser welding provide support for "wherein the flat frame and the flat mask are the only elements that touch the flat mask". However, such a limitation can be met if the frame and mask were clamped together without any sort of welding. The present specification does not provide any support for clamping. If the Applicant intends to claim laser welding, then the Applicant is advised to explicitly claim laser welding.

The Applicant argues on pg. 9 that the Examiner has not identified anything whatsoever in Martin or elsewhere in the prior art that would have motivated one of ordinary skill in the art to eliminate the raised boss member 98 and clamping member counterbore 94 in Fig. 7. However, the rejection relies on the obviousness of using the welding of the embodiment of Figs. 1-6 in place of the clamping used in the embodiment of Fig. 7. The raised boss member is only required with the use of clamping. Thus, one of ordinary skill would have recognized that such portions are no longer required when the clamping method is no longer being used. See, e.g., 2144.II.A.

The Applicant argues on pg. 10 that there is simply no suggestion to grind off the raised boss member 98 of the clamping member 88 so that the clamping member 88 has a flat surface. However, one of ordinary skill would have used any known method to make the modification and is not limited to just grinding off unnecessary portions because the claims encompass any method.

The Applicant argues on pg. 10 that the Examiner does not provide "a flat frame supporting the first flat surface of the flat mask so that the flask mask is tensed and the first flat surface remains flat" as recited in claim 14 because the mask supporting frame 34 has a raised edge 38 and this is not "a flat frame" as recited in claim 14. However, one of ordinary skill in

Application/Control Number: 10/717,571

Art Unit: 1762

the art would have recognized that the raised ridge is also used as part of the clamping mechanism and would have omitted such a feature with the knowledge of losing the clamping function (i.e., for the same reason as omitting the raised boss member) because the rejection relies on the obviousness of replacing the clamping method with a welding method, as discussed above. The omission of the raised edge is obvious in view of the obviousness to remove the raised boss member as recited in the rejection.

The Applicant argues on pg. 10 that the substitution of the clamping method for a welding method would change the principle operation of the embodiment in Fig. 7. However, one of ordinary skill in the art would have expected similar results using either method because both methods are used to maintain a predetermined tension in the mask.

The Applicant argues on pg. 12 that Figs. 1-6 teach affixing the metal foil to the mask supporting frame using welding but without using the clamping member which is used in Fig. 7 and that Fig. 7 teachings affixing the metal foil to the mask supporting frame using the clamping member but without using the welding which is used in Figs. 1-6. However, Martin never teaches such exclusions. Martin merely teaches that the clamping method and welding method are alternatives, but never teaches away from using such methods in the same embodiment. Nevertheless, the rejection is only based on the use of welding. As stated above, the welding method is used to replace the clamping method.

The Applicant argues on pg. 13 that Martin's mere disclosure of a "substantially uniform tension" would not have suggested to one of ordinary skill in the art the desirability of providing the feature "wherein the flat mask is tensed with different tensions at different points on each of a plurality of sides of the flat mask" recited in dependent claim 21. However, the teaching of "substantially uniform tension" would have suggested to one of ordinary skill in the art that the tension of the mask does not have to be completely and equally uniform. One of ordinary skill in the art would have been led to apply a tension as uniform as possible without the extra effort to make the tension perfectly uniform. Thus, the mask would have slightly different tensions applied on different sides, thereby meets the limitations of the claim.

The Applicant argues on pg. 16 that MPEP 2144.06 states that an express suggestion to substitute for another is not required to render such substitution obvious, rather than an express motivation as alleged by the Examiner. However, an express suggestion is comprehensive of an

Art Unit: 1762

express motivation, since the motivation would require such suggestion. Thus, a motivation would require more evidence for support than a suggestion.

The Applicant argues on pg. 16 that while an express suggestion to substitute one equivalent for another is not required to render such substitution obvious, there still must be something in the applied reference or references that would have suggested the desirability of the substitution to one of ordinary skill in the art. However, both the registration members of Martin and the alignment marks of Fujimori are used for the same purpose of aligning the mask to a substrate. Thus, the alignment methods are equivalents. The knowledge that such are equivalents is enough to render a substitution of alignment methods obvious.

The Applicant argues on pg. 17 that the Examiner has not identified anything whatsoever in Martin and Fujimori or elsewhere in the prior art that recognizes that Martin's alignment method and Fujimori's alignment method are equivalents. However, Martin and Fujimori teach that both methods are used for the same purpose of aligning a mask to a substrate. One of ordinary skill in the art would have recognized that such methods are equivalents by merely looking at the two references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy Lin whose telephone number is 571-272-8902. The examiner can normally be reached on Monday thru Friday 8AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 1762

IL J

> KEITH HENDRICKS PRIMARY EXAMINER